

LSR Series

Features

- Snap-in terminal type
- 105°C, 3,000 hours assured
- High Ripple current.
- RoHS Compliance



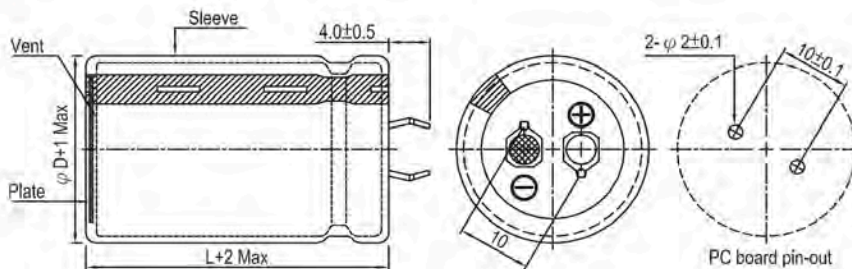
Sleeve & Marking Color: Black & White

Specifications

Items	Performance												
Category Temperature Range	400 ~ 450V -25°C ~ +105°C												
Capacitance Tolerance	± 20% (at 120Hz, 20°C)												
Leakage Current (at 20°C)	$I = 3\sqrt{CV}$ or 1.5 mA whichever is smaller (after 5 minutes) Where, C = rated capacitance in μF , V = rated DC working voltage in V												
Tan δ (at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Tanδ(max)</td> <td>0.15</td> <td>0.15</td> </tr> </tbody> </table>	Rated Voltage	400	450	Tan δ (max)	0.15	0.15						
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Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Impedance Ratio $Z(-25^\circ\text{C})/Z(+20^\circ\text{C})$</td> <td>8</td> <td>8</td> </tr> </tbody> </table>	Rated Voltage	400	450	Impedance Ratio $Z(-25^\circ\text{C})/Z(+20^\circ\text{C})$	8	8						
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Multiplier	0.8	1.0	1.1	1.3	1.4								
Failure percentage Failure rate	$\leq 3\%$ (During useful life) ≤ 70 fit ($70 \times 10^{-9}/\text{h}$)												

Diagram of Dimensions

Unit: mm



Snap-in

Dimension and Permissible Ripple Current

Working Voltage V. DC	Capacitance 120Hz, 20°C μF	φ D×L mm	Ripple Current 120 Hz, 105°C A/rms	Tan δ at 120Hz, 20°C	ESR 120Hz, 20°C Ω	LC 5 minutes mA	Part Number
400	100	22 × 25	1.02	0.15	1.194	0.60	LSR101M2G--A2225
	120	22 × 30	1.22	0.15	0.995	0.66	LSR121M2G--A2230
	120	25 × 25	1.22	0.15	0.995	0.66	LSR121M2G--A2525
	150	22 × 35	1.33	0.15	0.796	0.73	LSR151M2G--A2235
	180	22 × 40	1.43	0.15	0.664	0.80	LSR181M2G--A2240
	180	25 × 30	1.43	0.15	0.664	0.80	LSR181M2G--A2530
	180	30 × 25	1.68	0.15	0.664	0.80	LSR181M2G--A3025
	220	22 × 45	1.55	0.15	0.543	0.89	LSR221M2G--A2245
	220	25 × 35	1.65	0.15	0.543	0.89	LSR221M2G--A2535
	220	30 × 30	1.79	0.15	0.543	0.89	LSR221M2G--A3030
	270	22 × 50	1.68	0.15	0.442	0.99	LSR271M2G--A2250
	270	25 × 40	1.83	0.15	0.442	0.99	LSR271M2G--A2540
	270	30 × 35	2.12	0.15	0.442	0.99	LSR271M2G--A3035
	270	35 × 25	2.12	0.15	0.442	0.99	LSR271M2G--A3525
	330	25 × 50	2.12	0.15	0.362	1.09	LSR331M2G--A2550
	330	30 × 40	2.33	0.15	0.362	1.09	LSR331M2G--A3040
	330	35 × 30	2.33	0.15	0.362	1.09	LSR331M2G--A3530
	390	30 × 45	2.52	0.15	0.306	1.18	LSR391M2G--A3045
	390	35 × 35	2.52	0.15	0.306	1.18	LSR391M2G--A3535
	470	30 × 50	2.85	0.15	0.254	1.30	LSR471M2G--A3050
	470	35 × 40	2.85	0.15	0.254	1.30	LSR471M2G--A3540
	560	35 × 45	3.18	0.15	0.213	1.42	LSR561M2G--A3545
	680	35 × 50	3.21	0.15	0.176	1.50	LSR681M2G--A3550
	450	82	22 × 25	0.96	0.15	1.456	0.58
100		22 × 30	1.04	0.15	1.194	0.64	LSR101M2W--A2230
100		25 × 25	1.04	0.15	1.194	0.64	LSR101M2W--A2525
120		22 × 35	1.15	0.15	0.995	0.70	LSR121M2W--A2235
120		25 × 30	1.22	0.15	0.995	0.70	LSR121M2W--A2530
150		22 × 40	1.22	0.15	0.796	0.78	LSR151M2W--A2240
150		25 × 35	1.31	0.15	0.796	0.78	LSR151M2W--A2535
150		30 × 25	1.31	0.15	0.796	0.78	LSR151M2W--A3025
180		22 × 45	1.35	0.15	0.664	0.85	LSR181M2W--A2245
180		25 × 40	1.35	0.15	0.664	0.85	LSR181M2W--A2540
180		30 × 30	1.60	0.15	0.664	0.85	LSR181M2W--A3030
180		35 × 25	1.60	0.15	0.664	0.85	LSR181M2W--A3525
220		25 × 45	1.55	0.15	0.543	0.94	LSR221M2W--A2545
220		30 × 35	1.71	0.15	0.543	0.94	LSR221M2W--A3035
270		25 × 50	1.74	0.15	0.442	1.05	LSR271M2W--A2550
270		30 × 40	1.90	0.15	0.442	1.05	LSR271M2W--A3040
270		35 × 30	1.90	0.15	0.442	1.05	LSR271M2W--A3530
330		30 × 45	2.20	0.15	0.362	1.16	LSR331M2W--A3045
330		35 × 35	2.20	0.15	0.362	1.16	LSR331M2W--A3535
390		30 × 50	2.40	0.15	0.306	1.26	LSR391M2W--A3050
390		35 × 40	2.42	0.15	0.306	1.26	LSR391M2W--A3540
470		35 × 45	2.67	0.15	0.254	1.38	LSR471M2W--A3545
560		35 × 50	2.85	0.15	0.213	1.50	LSR561M2W--A3550

Snap-in

Part Numbering System

LSR Series	220μF	±20%	400V	4.0±0.5mm	30 φ ×30L	Pb-free Terminal + PET Sleeve	
LSR	221	M	2G	--	A	3030	S
Series Name	Capacitance	Capacitance tolerance	Rated voltage	Terminal type	Terminal length	Case size	Terminal and Sleeve Type
Example:		M = ±20% K = ±10%	Example:	Example:	Example:	Example:	Example:
Cap.	Symbol		WV	Symbol	Type	Symbol	Code
56	560		400	2G	2 pins	--	22×30 2230
220	221		450	2W	5 pins	L5	25×25 2525
470	471						30×40 3040

Note: For more details, please refer to "Part Numbering System (Snap-in Type)"

Typical Endurance Curves

